



# OpenAI

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**Hongru Du**



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Empire of AI Karen Hao, 2025-05-20 A NEW YORK TIMES BESTSELLER An eye opening account of the tech arms race shaping out planet from an award winning journalist and AI insider to the world of Sam Altman and OpenAI When longtime AI expert and journalist Karen Hao first began covering OpenAI in 2019 she thought they were the good guys Founded as a nonprofit with safety enshrined as its core mission it was meant its leader Sam Altman told us to act as a check against more purely market forces But the core truth of this massively disruptive sector is that it requires an unprecedented amount of proprietary resources the compute power of scarce high end chips the sheer volume of data that needs to be amassed at scale the humans on the ground cleaning it up for sweatshop wages throughout the Global South and a truly alarming spike in the need for energy and water underlying everything We have entered a new ominous age of empire with OpenAI setting a breakneck pace as a small group of the most valuable companies in human history try to chase it down In exhilarating prose and with unparalleled access to those closest to Sam Altman Hao recounts the meteoric rise of OpenAI and shows us the sinister impact that this industry is having on society      Generative AI: Current Trends and Applications Khalid Raza, Naeem

Ahmad, Deepak Singh, 2024-12-09 This comprehensive volume focuses on the latest advancements in Generative AI including state of the art techniques and models that are pushing the boundaries of what is possible It covers recent developments in areas such as Generative AI models transfer learning and Natural Language Processing NLP highlighting their potential to revolutionize content generation and creative applications including OpenAI LangChain NLTK and their practical implementations across diverse domains The volume provides insights into emerging research areas novel architectures and innovative approaches in Generative AI giving searchers a glimpse into the exciting future of the field The aim is to offer readers a deep understanding of Generative AI and how it can be harnessed to tackle complex real world challenges

*ChatGPT eBook* GURMEET SINGH DANG,      **Social Data Analytics in the Cloud with AI** Xuebin Wei, Xinyue Ye, 2024-12-30 The rise of cloud computing and Generative artificial intelligence AI has revolutionized data analytics pipelines Analysts can collect store and process vast datasets in the cloud with high availability and scalability and also leverage Generative AI to query and visualize datasets in natural languages This pioneering textbook provides a gateway for students educators and professionals to develop and enhance social data analytics capabilities with the latest cloud computing and AI technologies The textbook introduces educational cloud resources from leading technology companies begins with foundational concepts and progresses to advanced techniques Features The first textbook on cloud based social data analytics with the assistance of Generative AI Introduces educational cloud resources from leading technology companies like AWS GitHub and MongoDB Presents a fully AI powered data analytics pipeline from Python coding to data collection with APIs cloud based data storage natural language queries and interactive visualization Analyzes Census and social media data with the latest large language models LLMs Provides hands on exercises with real world datasets on timely

issues This textbook is an excellent resource for upper level undergraduate and graduate students taking GIS Urban Informatics Social Science Data Analysis and Data Science courses faculty members teaching such courses and professionals and researchers interested in leveraging cloud computing and Generative AI in social data analytics      **Intelligent Computing** Kohei Arai,2025-08-09 This book compiles a curated selection of insightful rigorously researched and state of the art papers presented at the Computing Conference 2025 hosted in London UK on June 19 20 2025 Drawing submissions from across the globe the conference received 473 papers each subjected to a stringent double blind peer review process Of these 169 papers were accepted for inclusion reflecting exceptional scholarship and innovation across disciplines such as IoT artificial intelligence computing data science networking data security and privacy Researchers academics and industry leaders converged to share pioneering ideas transformative methodologies and practical solutions to real world challenges By bridging academic theory and industrial application the conference catalyzed opportunities for knowledge synthesis and interdisciplinary progress The diverse contributions within this proceedings not only address contemporary technological issues but also anticipate future trends offering frameworks for continued exploration We trust this collection will serve as an indispensable reference for researchers practitioners and policymakers navigating the evolving landscapes of computing and digital innovation As we reflect on the conference s outcomes we are confident that the insights and collaborations forged here will inspire sustained advancements in these critical fields May the ideas within these pages spark further inquiry drive technological evolution and contribute meaningfully to solving the challenges of our interconnected world      **Future Learning and New Work** John Erpenbeck,Werner Sauter,2024-08-15 Future Learning ist die Strategie f r die Bew ltigung der Herausforderungen in der Zukunft Dieses Buch von John Erpenbeck und Werner Sauter untersucht die Auswirkungen aktueller Megatrends auf das Corporate Learning Sie erhalten erprobte Konzepte zur Skill Diagnostik und zum strategischen Ausbau der Organisationskultur und kompetenzen der Teambildung und der gezielten selbstorganisierten Skill Entwicklung der Mitarbeitenden mit innovativen Lernmethoden und K nstlicher Intelligenz Daraus werden ein ver ndertes Gesch ftsmodell des Future Learning und die daf r notwendigen Ver nderungsprozesse abgeleitet Praktische Anwendungsbeispiele aus Unternehmen eine umfangreiche Praxis Toolbox ein Glossar und eine individuelle Werte und Kompetenzdiagnostik runden das Werk ab Inhalte New Work digitale Transformation K nstliche Intelligenz Selbstorganisation agiles Mindset und Handeln Werte und Kompetenzdiagnostik die Basis gezielter Skill Entwicklung Future Learning Erm glichungs Didaktik und agile Methodik Strategisches Skill Management Gesch ftsmodelle und Ver nderungsprozesse des Future Learning Neu in der 2 Auflage Future Skills K nstliche Intelligenz und Extended Reality im Corporate Learning Spielbasiertes Lernen Erweiterte Toolbox f r gezielte Skill Entwicklung      Cyclopedic Review of Current History Alfred Sidney Johnson,1897      Natural Language Processing in Action, Second Edition Hobson Lane,Maria Dyshel,2025-02-25 Develop your NLP skills from scratch with an open source toolbox of Python packages Transformers Hugging Face vector databases and your own Large Language

Models Natural Language Processing in Action Second Edition has helped thousands of data scientists build machines that understand human language In this new and revised edition you ll discover state of the art Natural Language Processing NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more You ll create NLP tools that can detect fake news filter spam deliver exceptional search results and even build truthfulness and reasoning into Large Language Models LLMs In Natural Language Processing in Action Second Edition you will learn how to Process analyze understand and generate natural language text Build production quality NLP pipelines with spaCy Build neural networks for NLP using Pytorch BERT and GPT transformers for English composition writing code and even organizing your thoughts Create chatbots and other conversational AI agents In this new and revised edition you ll discover state of the art NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more Plus you ll discover vital skills and techniques for optimizing LLMs including conversational design and automating the trial and error of LLM interactions for effective and accurate results About the technology From nearly human chatbots to ultra personalized business reports to AI generated email news stories and novels natural language processing NLP has never been more powerful Groundbreaking advances in deep learning have made high quality open source models and powerful NLP tools like spaCy and PyTorch widely available and ready for production applications This book is your entrance ticket and backstage pass into the next generation of natural language processing About the book Natural Language Processing in Action Second Edition introduces the foundational technologies and state of the art tools you ll need to write and publish NLP applications You learn how to create custom models for search translation writing assistants and more without relying on big commercial foundation models This fully updated second edition includes coverage of BERT Hugging Face transformers fine tuning large language models and more What s inside NLP pipelines with spaCy Neural networks with PyTorch BERT and GPT transformers Conversational design for chatbots About the reader For intermediate Python programmers familiar with deep learning basics About the author Hobson Lane is a data scientist and machine learning engineer with over twenty years of experience building autonomous systems and NLP pipelines Maria Dyshel is a social entrepreneur and artificial intelligence expert and the CEO and cofounder of Tangible AI Cole Howard and Hannes Max Hapke were co authors of the first edition

The Human Use of Human Beings Norbert Wiener, 2025-08-12 For the 75th anniversary a new edition of The Human Use of Human Beings the landmark book that delves into the relationship between humans and computers and presciently anticipates many contemporary dilemmas surrounding AI technology With a new introduction by Brian Christian author of the bestselling Algorithms to Live By and The Alignment Problem In 1950 mathematician philosopher Norbert Wiener ended this classic book on the place of machines in society with a warning We shall never receive the right answers to our questions unless we ask the right questions The hour is very late and the choice of good and evil knocks at our door Wiener the founder of the science of cybernetics the study of the relationship between computers and the human nervous system was widely

misleadingly as an advocate for the automation of human life As *The Human Use of Human Beings* reveals his vision was much more complex and interesting and is more relevant in today's world of AI than anyone could have anticipated In his new introduction Brian Christian aptly calls Wiener the progenitor of contemporary AI safety discourse Wiener hoped that machines would release people from relentless and repetitive drudgery to achieve more creative pursuits yet he anticipated the danger of dehumanizing and displacement His pioneering views on the human machine relationship as a communicative process are only more crucial now as we carry in our pockets AI devices that we can literally speak to His prescient warnings illuminate our contemporary relationships with language art and even social media *The Human Use of Human Beings* examines the implications of cybernetics for education law language science technology as Wiener anticipates the enormous impact in effect a third industrial revolution that the computer has had on our lives Association Monthly ,1870 **How did Stanford continue to foster growth in Silicon Valley during the early 2000s?** ,2025-10-01 Pre University Paper from the year 2024 in the subject Business economics Miscellaneous grade 10 language English abstract This research paper examines the symbiotic relationship between Silicon Valley and Stanford University and its impact on the startup scene in the early 2000s San Francisco Bay Area Furthermore a historical analysis of Stanford and Silicon Valley focuses on the deepened relationship these two entities have set up Additionally many companies that originated in Silicon Valley and have changed the world will be recognized Lastly the motivations and future directions of the Valley and Stanford will be explained The rise of massive open online courses MOOCs by universities such as Harvard and MIT sends knowledge at no cost and might change the Valley for the time to come You to the Power of Two Joseph Bradley,Don Tapscott,2025-12-02 A new and previously unexplained era of artificial intelligence will transform human life forever Discover what this means for our personal identity and our future AI tools are already reshaping the way we work and communicate but as they gain autonomy they will no longer be mere tools they will become active participants in our world As our digital identities become smarter and more capable we enter the age of identic AI a world where ever present AI companions streamline daily tasks enhance wellbeing and offer lifelong learning For professionals these intelligent agents will amplify creativity boost productivity and expand human potential But with this extraordinary promise comes profound risks to individuals businesses and society itself From technology experts Joseph M Bradley and Don Tapscott *You to the Power of Two* is a thought provoking and timely guide that will prepare readers to thrive in world of personal AI agents by Revealing how our new digital sidekicks will transform our careers healthcare education and relationships Empowering readers to embrace AI with confidence and purpose rather than fear Exploring AI's role in redefining human potential success and the institutions of society Explaining self sovereign identity and decentralized AI models that will safeguard autonomy control and future For individuals businesses and policymakers alike identic AI will reshape how we work learn and connect Will we harness its power for a more equitable future or will we let it shape us in ways we can't control The future isn't written It's ours to

create     **Records & Briefs New York State Appellate Division ,     Deep Learning with JAX** Grigory Sapunov,2024-12-03 Accelerate deep learning and other number intensive tasks with JAX Google s awesome high performance numerical computing library The JAX numerical computing library tackles the core performance challenges at the heart of deep learning and other scientific computing tasks By combining Google s Accelerated Linear Algebra platform XLA with a hyper optimized version of NumPy and a variety of other high performance features JAX delivers a huge performance boost in low level computations and transformations In Deep Learning with JAX you will learn how to Use JAX for numerical calculations Build differentiable models with JAX primitives Run distributed and parallelized computations with JAX Use high level neural network libraries such as Flax Leverage libraries and modules from the JAX ecosystem Deep Learning with JAX is a hands on guide to using JAX for deep learning and other mathematically intensive applications Google Developer Expert Grigory Sapunov steadily builds your understanding of JAX s concepts The engaging examples introduce the fundamental concepts on which JAX relies and then show you how to apply them to real world tasks You ll learn how to use JAX s ecosystem of high level libraries and modules and also how to combine TensorFlow and PyTorch with JAX for data loading and deployment About the technology Google s JAX offers a fresh vision for deep learning This powerful library gives you fine control over low level processes like gradient calculations delivering fast and efficient model training and inference especially on large datasets JAX has transformed how research scientists approach deep learning Now boasting a robust ecosystem of tools and libraries JAX makes evolutionary computations federated learning and other performance sensitive tasks approachable for all types of applications About the book Deep Learning with JAX teaches you to build effective neural networks with JAX In this example rich book you ll discover how JAX s unique features help you tackle important deep learning performance challenges like distributing computations across a cluster of TPUs You ll put the library into action as you create an image classification tool an image filter application and other realistic projects The nicely annotated code listings demonstrate how JAX s functional programming mindset improves composability and parallelization What s inside Use JAX for numerical calculations Build differentiable models with JAX primitives Run distributed and parallelized computations with JAX Use high level neural network libraries such as Flax About the reader For intermediate Python programmers who are familiar with deep learning About the author Grigory Sapunov holds a Ph D in artificial intelligence and is a Google Developer Expert in Machine Learning The technical editor on this book was Nicholas McGreivy Table of Contents Part 1 1 When and why to use JAX 2 Your first program in JAX Part 2 3 Working with arrays 4 Calculating gradients 5 Compiling your code 6 Vectorizing your code 7 Parallelizing your computations 8 Using tensor sharding 9 Random numbers in JAX 10 Working with pytrees Part 3 11 Higher level neural network libraries 12 Other members of the JAX ecosystem A Installing JAX B Using Google Colab C Using Google Cloud TPUs D Experimental parallelization     **Transformers in Action** Nicole Koenigstein,2025-11-25 Understand the architecture that underpins today s most powerful AI models Transformers

are the superpower behind large language models LLMs like ChatGPT Gemini and Claude Transformers in Action gives you the insights practical techniques and extensive code samples you need to adapt pretrained transformer models to new and exciting tasks Inside Transformers in Action you ll learn How transformers and LLMs work Modeling families and architecture variants Efficient and specialized large language models Adapt HuggingFace models to new tasks Automate hyperparameter search with Ray Tune and Optuna Optimize LLM model performance Advanced prompting and zero few shot learning Text generation with reinforcement learning Responsible LLMs Transformers in Action takes you from the origins of transformers all the way to fine tuning an LLM for your own projects Author Nicole Koenigstein demonstrates the vital mathematical and theoretical background of the transformer architecture practically through executable Jupyter notebooks You ll discover advice on prompt engineering as well as proven and tested methods for optimizing and tuning large language models Plus you ll find unique coverage of AI ethics specialized smaller models and the decoder encoder architecture Foreword by Luis Serrano About the technology Transformers are the beating heart of large language models LLMs and other generative AI tools These powerful neural networks use a mechanism called self attention which enables them to dynamically evaluate the relevance of each input element in context Transformer based models can understand and generate natural language translate between languages summarize text and even write code all with impressive fluency and coherence About the book Transformers in Action introduces you to transformers and large language models with careful attention to their design and mathematical underpinnings You ll learn why architecture matters for speed scale and retrieval as you explore applications including RAG and multi modal models Along the way you ll discover how to optimize training and performance using advanced sampling and decoding techniques use reinforcement learning to align models with human preferences and more The hands on Jupyter notebooks and real world examples ensure you ll see transformers in action as you go What s inside Optimizing LLM model performance Adapting HuggingFace models to new tasks How transformers and LLMs work under the hood Mitigating bias and responsible ethics in LLMs About the reader For data scientists and machine learning engineers About the author Nicole Koenigstein is the Co Founder and Chief AI Officer at the fintech company Quantmate Table of Contents Part 1 1 The need for transformers 2 A deeper look into transformers Part 2 3 Model families and architecture variants 4 Text generation strategies and prompting techniques 5 Preference alignment and retrieval augmented generation Part 3 6 Multimodal models 7 Efficient and specialized small language models 8 Training and evaluating large language models 9 Optimizing and scaling large language models 10 Ethical and responsible large language models

**Convention** National Electric Light Association. Convention,1929      *The New Yorker* ,1937-02      **Vanity Fair** ,2017      **New York Court of Appeals. Records and Briefs.** New York (State).,      **Century Illustrated Monthly Magazine** ... ,1872



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 instead of ml we have  $v = m \cdot d$   $\frac{32 \text{ g}}{\text{mol}} \cdot 1.790 \text{ g/l} = 18.0405 \text{ l/mol}$  nonnumber

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 point to keep in mind is that n can be moles of any gas since one mole always contain 6.02  $\times 10^{23}$  molecules and one molecule  
 of any gas at the same temperature will have the same kinetic energy based on this principle it is found

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 number an unchanging constant whether you are counting hydrogen atoms carbon dioxide molecules or carbonate ions a  
 mole is always 6.02  $\times 10^{23}$  but as different particles have different mass their molar mass varies



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web zero degrees celsius or 273 k is defined as standard temperature and one atmosphere or 760 mm hg is defined as standard pressure the volume occupied by one mole of a gas is called molar volume therefore the molar volume of a gas at standard temperature and pressure stp is 22.4 l

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web at standard temperature and pressure stp the molar volume  $V_m$  is the volume occupied by one mole of a chemical element or a chemical compound it can be calculated by dividing the molar mass  $M$  by mass density  $\rho$  molar gas volume is one mole of any gas at a specific temperature and pressure has a fixed volume molar volume formula

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web this volume is known as the molar gas volume  $v_m$  the volume of a gas may be calculated from its number of moles using volume of gas moles  $v_m$  rearranging this moles of gas  $\frac{v}{v_m}$

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web jun 8 2023  $v = 1.00 \text{ mol} \cdot 0.08206 \text{ latm mol} \cdot 273 \text{ k} = 1.00 \text{ atm} \cdot 22.4 \text{ l}$  in other words 1 mole of a gas will occupy 22.4 l at stp assuming ideal gas behavior at stp the volume of a gas is only dependent on number of moles of

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